

LENS ARRAY FOR USE IN PARALLEL OPTICS MODULES FOR FIBER OPTICS COMMUNICATIONS

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ABSTRACT OF THE DISCLOSURE

A lens array for use in fiber optic communications modules where multiple optical fibers are used in either transmitting or receiving optical signals. The lens array is adapted for optically interfacing a set of photoactive components such as semiconductor lasers or photo diodes deployed on an integrated circuit chip with a set of optical communications fibers supported in a ferrule. The individual lens elements within the array are shaped to have a greater height than width and are fitted together by being truncated along their boundaries with adjoining lenses. The increased height of the lens elements allows them to gather and transfer more light between the photoactive components and the optical fibers.

FOOTNOTES